

Title (en)

NON-UNIFORMITY CORRECTION TECHNIQUES FOR INFRARED IMAGING DEVICES

Title (de)

UNGLEICHMÄSSIGKEITSKORREKTURVERFAHREN FÜR INFRAROT-BILDGEBUNGSVORRICHTUNGEN

Title (fr)

TECHNIQUES DE CORRECTION DE NON-UNIFORMITÉ POUR DISPOSITIFS D'IMAGERIE INFRAROUGE

Publication

EP 2719165 B1 20180502 (EN)

Application

EP 12727208 A 20120608

Priority

- US 201161495873 P 20110610
- US 201161495879 P 20110610
- US 201161495888 P 20110610
- US 201161545056 P 20111007
- US 2012041749 W 20120608

Abstract (en)

[origin: WO2012170949A2] Various techniques are disclosed for performing non-uniformity correction (NUC) for infrared imaging devices. Intentionally blurred image frames may be obtained and processed to correct for FPN (e.g., random spatially uncorrelated FPN in one embodiment) associated with infrared sensors of the infrared imaging device. Intentionally blurred image frames may be used to distinguish between FPN associated with the infrared sensors and desired scene information. Advantageously, such techniques may be implemented without requiring the use of a shutter to perform flat field correction for the infrared imaging device.

IPC 8 full level

H04N 5/33 (2006.01)

CPC (source: EP US)

H04N 5/33 (2013.01 - US); **H04N 23/23** (2023.01 - EP); **H04N 25/76** (2023.01 - EP)

Citation (examination)

US 2003198400 A1 20031023 - ALDERSON TIMOTHY [US], et al

Cited by

US9948872B2; US10250822B2; US10122944B2; US10970556B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012170949 A2 20121213; WO 2012170949 A3 20130411; CA 2838992 A1 20121213; CA 2838992 C 20180501; CN 103875235 A 20140618; CN 103875235 B 20181012; EP 2719165 A2 20140416; EP 2719165 B1 20180502; KR 101778353 B1 20170913; KR 20140041714 A 20140404; US 2014092257 A1 20140403; US 9723227 B2 20170801

DOCDB simple family (application)

US 2012041749 W 20120608; CA 2838992 A 20120608; CN 201280037716 A 20120608; EP 12727208 A 20120608; KR 20147000705 A 20120608; US 201314099818 A 20131206